

**Abstract**

5           Systems and methods stimulate circulatory  
activity in a targeted body region of an individual by  
applying ultrasound energy. Before, during or after the  
application of ultrasound energy, the systems and methods  
administer an agent to individual that results, e.g., in an  
angiogenic effect, or in a reduction of blood perfusion, or  
a chemotherapy effect. The application of ultrasound energy  
selectively increases blood perfusion or uptake of the agent  
10 in the targeted body region.